



STIC Search Report

EIC 3700

STIC Database Tracking Number: 96015

TO: Robin Hylton
Location: CP2-9E12
Art Unit: 3727
Monday, June 09, 2003

Case Serial Number: 10/049534

From: Julie Walko *JW*
Location: EIC 3700
CP2-2C08
Phone: 305-8587

Julie.walko@uspto.gov

Search Notes

Robin:

Attached are the results to your request regarding a plastic bag with multiple side seams.

Considering this is your case, I'm not surprised to tell you I found little and probably nothing relevant ☺.

If you have any questions or would like this search reworked in any way, please do not hesitate to contact me at the number or address listed above.

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Robnatty/ton Examiner #: 72454 Date: 6/6/03
Art Unit: 3727 Phone Number 308-1208 Serial Number: 10/049534
Mail Box and Bldg/Room Location: CP2-9E12 Results Format Preferred (circle) PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Container with closure device and multiple
Inventors (please provide full names): Alan F. Savicki Side seals

Earliest Priority Filing Date: 06 June 2000 (PCT)

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

plastic bag with rib and groove closure
(ziplock) having a slider for closure operation.
the bag has multiple welds, or adhesive
seals on each side

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>Jwalko</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>305-8587</u>	AA Sequence (#) _____	Dialog <u>✓</u>
Searcher Location: <u>CP7-2C08</u>	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>6/9/03</u>	Bibliographic <u>✓</u>	Dr.Link _____
Date Completed: <u>6/9/03</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>36m</u>	Fulltext <u>✓</u>	Sequence Systems <u>✓</u>
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>29m</u>	Other _____	Other (specify) _____



STIC Search Results Feedback Form

EIC 3700

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

John Sims, EIC 3700 Team Leader
308-4836, CP2-2C08

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 3730

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology:

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC3700 CP2-2C08



Invention
Search

6/5/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014277205 **Image available**
WPI Acc No: 2002-097907/200213
XRPX Acc No: N02-072331

A container comprising a resealable plastic bag provided with a slider operated closure device has multiple sidewall sealing strips to withstand bursting forces which may be accidentally imposed

Patent Assignee: GLAD PROD CO (GLAD-N)

Inventor: SAVICKI A F

Number of Countries: 093 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200194224	A1	20011213	WO 2000US40121	A	20000606	200213 B
AU 200061192	A	20011217	AU 200061192	A	20000606	200225
			WO 2000US40121	A	20000606	

Priority Applications (No Type Date): WO 2000US40121 A 20000606

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200194224 A1 E 32 B65D-033/16

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH
CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE
KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO
RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200061192 A B65D-033/16 Based on patent WO 200194224

Abstract (Basic): WO 200194224 A1

NOVELTY - A container (100) comprises a plastic bag (120) provided with a closure device (121) consisting of fastening strips (130,131) and a slider (132). The fastening strips have inwardly projecting interlocking elements which are engaged when the fastener moves in the occlusion direction (114) and separate when the slider is moved in the deocclusion direction (116). The bag includes a first sidewall (122) and a second sidewall (123) joined at the edges by first and second side seals (124,126) reinforced by third and fourth side seals (126,127). Additional side seals may be included if desired. The side seals may be produced by heat sealing, ultrasonic sealing or by using adhesives.

USE - To provide a flexible storage container.

ADVANTAGE - The supplementary side seals enable the bag to withstand bursting forces which may occur if the bag is dropped or a weight is dropped on it, thereby preserving the contents.

DESCRIPTION OF DRAWING(S) - The drawing shows a perspective view of the container.

Container (100)

Occlusion and deocclusion directions (114,116)

Plastic bag (120)

Closure device (121)

First and second sidewalls (122,123)

First and second side seals (124,126)

Third and fourth side seals (126,127)

Fastening strips (130,131)

Slider (132)

pp; 32 DwgNo 1/9

Title Terms: CONTAINER; COMPRISE; RESEAL; PLASTIC; **BAG** ; SLIDE; OPERATE;
CLOSURE; DEVICE; MULTIPLE; SIDEWALL; **SEAL** ; STRIP; WITHSTAND; BURST;
FORCE; ACCIDENT; IMPOSE
Derwent Class: P72; Q32
International Patent Class (Main): B65D-033/16
International Patent Class (Additional): B31B-001/90
File Segment: EngPI

6/5/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013577600 **Image available**
WPI Acc No: 2001-061807/200107
XRPX Acc No: N01-046317

Closure device with interlocking fastening strips and slider for
leak-proof plastic bag , has second seal sealing fastening strips
together close to end of fastening strips to eliminate leaks

Patent Assignee: GLAD PROD CO (GLAD-N)
Inventor: BORCHARDT M G; **SAVICKI A F**
Number of Countries: 085 Number of Patents: 003
Patent Family:

Patent No.	Kind	Date	Applicat No	Kind	Date	Week
WO 200076352	A1	20001221	WO 99US13248	A	19990610	200107 B
AU 9943399	A	20010102	AU 9943399	A	19990610	200121
			WO 99US13248	A	19990610	
JP 2003501184	W	20030114	WO 99US13248	A	19990610	200306
			JP 2001502706	A	19990610	

Priority Applications (No Type Date): WO 99US13248 A 19990610
Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
WO 200076352 A1 E 39 A44B-019/16

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU
CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL
TJ TM TR TT UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW NL OA PT SD SE SL SZ UG ZW

AU 9943399 A A44B-019/16 Based on patent WO 200076352
JP 2003501184 W 41 A44B-019/36 Based on patent WO 200076352

Abstract (Basic): WO 200076352 A1

NOVELTY - The closure device has fastening strips (130,131) and includes a second **seal** (129) near to one of the ends of the fastening strips. The second **seal** is formed by heat sealing to melt the fastening strips together. The second **seal** prevents the separator of the slider (132) from de-occluding or forming a gap when the slider is at the occluded end. The second **seal** extends midway up the fastening strips so that the separator moves over the second **seal** during movement of the slider towards the end.

DETAILED DESCRIPTION - An unmelted portion (119) of the fastening strips lies between the second **seal** and the end of the fastening strips to maintain the guide rails (139) and to prevent the slider from disengaging the fastening strips. INDEPENDENT CLAIMS are included for a slider, a container and for a method of manufacturing the closure device.

USE - As a closure device for a plastic bag etc. e.g. for storage of foodstuffs.

ADVANTAGE - Ensures end of **seal** is leakproof.

DESCRIPTION OF DRAWING(S) - The drawing shows a perspective view of the container.

Unmelted portion (119)

Second **seal** (129)

Fastening strips(132) Slider (130,131)

pp; 39 DwgNo 1/16

Title Terms: CLOSURE; DEVICE; **INTERLOCKING** ; FASTEN; STRIP; SLIDE; LEAK;
PROOF; PLASTIC; **BAG** ; SECOND; **SEAL** ; **SEAL** ; FASTEN; STRIP; CLOSE; END;
FASTEN; STRIP; ELIMINATE; LEAK

Derwent Class: P23; Q32

International Patent Class (Main): A44B-019/16; A44B-019/36

International Patent Class (Additional): A44B-019/26; B65D-033/25

File Segment: EngPI

Set	Items	Description
S1	113	AU='SAVICKI A F':AU='SAVICKI ALAN FRANCIS'
S2	76	S1 AND (BAG OR BAGS)
S3	46	S2 AND (SEAL? ? OR SEAM? ?)
S4	43	S3 AND (ZIP? ? OR ZIPPER? ? OR GROOVE? ? OR INTERLOCK?)
S5	43	IDPAT (sorted in duplicate/non-duplicate order)
S6	36	IDPAT (primary/non-duplicate records only)

? show files

File 347:JAPIO Oct 1976-2003/Feb(Updated 030603)

(c) 2003 JPO & JAPIO

File 348:EUROPEAN PATENTS 1978-2003/Jun W01

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20030529,UT=20030522

(c) 2003 WIPO/Univentio

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200336

(c) 2003 Thomson Derwent

File 371:French Patents 1961-2002/BOPI 200209

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Biblio
Patents

11/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014277205 **Image available**
WPI Acc No: 2002-097907/200213
XRPX Acc No: N02-072331

A container comprising a resealable plastic bag provided with a slider operated closure device has multiple sidewall sealing strips to withstand bursting forces which may be accidentally imposed

Patent Assignee: GLAD PROD CO (GLAD-N)
Inventor: SAVICKI A F
Number of Countries: 093 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200194224	A1	20011213	WO 2000US40121	A	20000606	200213 B
AU 200061192	A	20011217	AU 200061192	A	20000606	200225
			WO 2000US40121	A	20000606	

Priority Applications (No Type Date): WO 2000US40121 A 20000606

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200194224 A1 E 32 B65D-033/16

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH
CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE
KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO
RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200061192 A B65D-033/16 Based on patent WO 200194224

Abstract (Basic): WO 200194224 A1

NOVELTY - A container (100) comprises a plastic bag (120) provided with a closure device (121) consisting of fastening strips (130,131) and a slider (132). The fastening strips have inwardly projecting interlocking elements which are engaged when the fastener moves in the occlusion direction (114) and separate when the slider is moved in the deocclusion direction (116). The bag includes a first sidewall (122) and a second sidewall (123) joined at the edges by first and second side seals (124,126) reinforced by third and fourth side seals (126,127). Additional side seals may be included if desired. The side seals may be produced by heat sealing, ultrasonic sealing or by using adhesives.

USE - To provide a flexible storage container.

ADVANTAGE - The supplementary side seals enable the bag to withstand bursting forces which may occur if the bag is dropped or a weight is dropped on it, thereby preserving the contents.

DESCRIPTION OF DRAWING(S) - The drawing shows a perspective view of the container.

Container (100)

Occlusion and deocclusion directions (114,116)

Plastic bag (120)

Closure device (121)

First and second sidewalls (122,123)

First and second side seals (124,126)

Third and fourth side seals (126,127)

Fastening strips (130,131)

Slider (132)

pp; 32 DwgNo 1/9

the
patent

Title Terms: CONTAINER; COMPRISE; RESEAL; PLASTIC; BAG; SLIDE; OPERATE;
CLOSURE; DEVICE; MULTIPLE; SIDEWALL; SEAL; STRIP; WITHSTAND; BURST; FORCE
; ACCIDENT; IMPOSE
Derwent Class: P72; Q32
International Patent Class (Main): B65D-033/16
International Patent Class (Additional): B31B-001/90
File Segment: EngPI

11/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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007834337
WPI Acc No: 1989-099449/198913
XRAM Acc No: C89-043925
XRPX Acc No: N89-075795

Mfr. of thermoplastic bags including thickened zipper portions -
without comprising quality and integrity of cut and sealed sides
Patent Assignee: DOWBRANDS INC (DOWC); DOW CHEM CO (DOWC); GENERAL
ELECTRIC CO (GENE)

Inventor: BEHR R D; WOODS T R
Number of Countries: 021 Number of Patents: 014
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4812192	A	19890314	US 88179791	A	19880411	198913 B
EP 337341	A	19891018	EP 89106269	A	19890410	198942
FR 2629755	A	19891013	FR 894672	A	19890410	198948
NO 8901465	A	19891106				198950
PT 90221	A	19891110				198950
BR 8901729	A	19891121				199001
DK 8901641	A	19891012				199002
FI 8901691	A	19891012				199002
AU 8932531	A	19891123				199011
CA 1301613	C	19920526	CA 594156	A	19890317	199227
EP 337341	B1	19930120	EP 89106269	A	19890410	199303
DE 68904455	E	19930304	DE 604455	A	19890410	199310
			EP 89106269	A	19890410	
ES 2037313	T3	19930616	EP 89106269	A	19890410	199327
KR 9615645	B1	19961120	KR 894708	A	19890410	199930

Priority Applications (No Type Date): US 88179791 A 19880411
Cited Patents: DE 2107043; DE 2307105; DE 2755860; US 3257256
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes							
US 4812192	A		12									
EP 337341	A	E										
	Designated States (Regional):	AT	BE	CH	DE	ES	GB	GR	IT	LI	NL	SE
EP 337341	B1	E		B29C-065/20								
	Designated States (Regional):	AT	BE	CH	DE	ES	GB	GR	IT	LI	NL	SE
DE 68904455	E			B29C-065/20	Based on patent EP 337341							
ES 2037313	T3			B29C-065/20	Based on patent EP 337341							
CA 1301613	C			B29C-065/74								
KR 9615645	B1			B31B-001/14								

Abstract (Basic): US 4812192 A

Multiple plies of thermoplastic (F) having thickened sections
resulting from the presence of zipper closures are cut at intervals
and the severed margins concurrently sealed together. The thermoplastic
is preblocked in areas to be severed and sealed adjacent the zipper
closure portions and subsequently blocked in the same areas adjacent

the **zipper** closure portions and throughout remaining portions, the thermoplastic being rendered tacky to stick the multiple plies together temporarily. Finally, all of the areas of thermoplastic to be severed and sealed are contacted by a cutting and sealing element pref. after heating the **zipper** closure portions in those areas. Pref. also, the **zipper** closure portions are stamped after severing and sealing to ensure sealing.

USE/ADVANTAGE - Process and appts. are used to mfr. **thermoplastic bags** with **zipper** closures of improved quality, overall side edge seal appearance being enhanced and side edge and **zipper** closure end seal leaks being greatly reduced.

Title Terms: MANUFACTURE; THERMOPLASTIC; BAG; THICKEN; PORTION; COMPRISE; QUALITY; INTEGRITY; CUT; SEAL; SIDE

Derwent Class: A32; A92; P72; P73; Q31; Q32

International Patent Class (Main): B29C-065/20; B29C-065/74; B31B-001/14

International Patent Class (Additional): B31B-001/64; B31B-023/14;

B32B-031/18; B65B-051/30; **B65D-030/10**

File Segment: CPI; EngP

Set	Items	Description
S1	662128	BAG OR BAGS OR CONTAINER? ? OR SACK? ?
S2	1656025	PLASTIC? OR THERMOPLASTIC? OR ELASTIC? OR FLEXIBLE OR FLEX- IBILITY
S3	488808	SEAL? ? OR SEAMS? ? OR SIDEWALL? ?
S4	3852531	TWO OR MULTIPLE OR MULTIPLICITY OR PLURAL? OR SEVERAL OR F- EW OR MORE (2W) ONE
S5	168468	INTERLOCK? OR ZIP? ? OR ZIPP??? OR SLIDER? ?
S6	2399666	ADHES? OR ULTRASONIC? OR HEAT
S7	127	S1 AND S2 AND S3 AND S5 AND S6
S8	76	S7 AND IC=B65D
S9	2	S1(3N)S2 AND S3(3N)S4 AND S5 AND S6 AND IC=B65D
S10	2	IDPAT (sorted in duplicate/non-duplicate order)
S11	2	IDPAT (primary/non-duplicate records only)

? show files

File 347:JAPIO Oct 1976-2003/Feb(Updated 030603)

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File 350:Derwent WPIX 1963-2003/UD,UM &UP=200336

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File 371:French Patents 1961-2002/BOPI 200209

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FT Patents

12/5,K/11 (Item 11 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

01005751 **Image available**

RECLOSABLE PACKAGE AND METHODS

EMBALLAGE REUTILISABLE ET PROCEDES

Patent Applicant/Assignee:

REYNOLDS CONSUMER PRODUCTS INC, 6603 West Broad Street, Richmond, VA
23230-1701, US, US (Residence), US (Nationality)

Inventor(s):

BUCHMAN James E, P.O. Box 2399, Appleton, WI 54912-2399, US,

Legal Representative:

GALLOWAY Peter D (et al) (agent), Ladas & Parry, 26 West 61st Street, New
York, NY 10023, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200335499 A1 20030501 (WO 0335499)

Application: WO 2002US34078 20021023 (PCT/WO US0234078)

Priority Application: US 200183208 20011024

Designated States: AU JP

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

Main International Patent Class: **B65D-033/25**

International Patent Class: B65B-061/18; B31B-019/90

Publication Language: English

Filing Language: English

English Abstract

A method of making packages having a reclosable zipper closure encased in a tamper-evident structure, and the packages made thereby. The method includes providing a package having an interior defined by a bottom seam and side seams. The side seams are present as a body seam and a tamper-evident structure seam; there is no side seam present across the zipper closure. The lack of a side seam present across the zipper closure facilitate removal of the tamper-evident structure. A slider device may be present on the packages to facilitate mating and unmating of the zipper closure.

Legal Status (Type, Date, Text)

Publication 20030501 A1 With international search report.

Publication 20030501 A1 Before the expiration of the time limit for
amending the claims and to be republished in the
event of the receipt of amendments.

Detailed Description

... the temperature from one side to another can be the same or can be different. **Multiple seal** bars 340, such as shown in FIG. 9, can be heated ? to different temperatures. The process can be designed so that each seam area is contacted by **multiple seal** bars, or by only one bar.

I 0 If needed, seal bar 370 can be...

12/5,K/16 (Item 16 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00799236 **Image available**

**A RESEALABLE BAG FOR FILLING WITH FOOD PRODUCT(S) AND METHOD
SACHET REFERMABLE POUR PRODUIT(S) ALIMENTAIRE(S) ET PROCEDE CORRESPONDANT**
Patent Applicant/Assignee:

SARGENTO FOODS INC, One Persnickety Place, Plymouth, WI 53073, US, US
(Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

STRAND Aaron, N6673 County Road C, Plymouth, WI 53073, US, US (Residence)
, US (Nationality), (Designated only for: US)

Legal Representative:

RYAN Daniel D (et al) (agent), P.O. Box 26618, Milwaukee, WI 53226-0618,
US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200132521 A1 20010510 (WO 0132521)

Application: WO 2000US25393 20000915 (PCT/WO US0025393)

Priority Application: US 99431732 19991101; US 99474493 19991229

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK
DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: **B65D-033/00**

Publication Language: English

Filing Language: English

English Abstract

A reclosable bag (100) for filling with at least one food product. The reclosable bag generally includes at least one sheet of web material (10) having at least two areas of structural weakness (12). At least one fold structure (11) is located between and defined by the two areas of structural weakness. An opening (33) is located generally opposite the fold structure. The reclosable bag further includes a reclosable fastener structure having an integral skirt structure (16) of skirt web material, including a distal margin, extending therefrom. The distal margin is coupled to the web material at, at least one location between the areas of structural weakness and the opening. The reclosable fastener structure extends past the areas of structural weakness and into the fold structure. The reclosable bag is capable of being filled with at least one food product through the opening. Alternatively, the reclosable bag may include a gusseted portion (310) located generally opposite the fold structure and wherein the opening is located between the fold structure and the gusseted portion.

Detailed Description

... portion of the inside surfaces 35a and 36a of the parent film 10. To form **two** additional hermetic **seals** 40 located below the hermetic seals 40 of the **zipper** skirt 16. The barrier film 16b is provided with a structural weakness at 45 which...

Set	Items	Description
S1	213378	BAG OR BAGS OR CONTAINER? ? OR SACK? ?
S2	557677	PLASTIC? OR THERMOPLASTIC? OR ELASTIC? OR FLEXIBLE OR FLEX- IBILITY
S3	173071	SEAL? ? OR SEAMS? ? OR SIDEWALL? ?
S4	1252877	TWO OR MULTIPLE OR MULTIPLICITY OR PLURAL? OR SEVERAL OR F- EW OR MORE(2W)ONE
S5	66166	INTERLOCK? OR ZIP? ? OR ZIPP??? OR SLIDER? ?
S6	476493	ADHES? OR ULTRASONIC? OR HEAT
S7	231	S1(3N)S2 AND S3(3N)S4 AND S5 AND S6
S8	132	S7 AND IC=B65D
S9	1321	S1(3N)S2 AND S3(3N)S4
S10	27	S9(S)S5(S)S6 AND IC=B65D
S11	27	IDPAT (sorted in duplicate/non-duplicate order)
S12	26	IDPAT (primary/non-duplicate records only)

? show files

File 348:EUROPEAN PATENTS 1978-2003/Jun W01

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20030529,UT=20030522

(c) 2003 WIPO/Univentio

8/5/1 (Item 1 from file: 53)
DIALOG(R)File 53:FOODLINE(R): Food Science & Technology
(c) 2003 LFRA. All rts. reserv.

00896217 FOODLINE ACCESSION NUMBER: 569630

Sealing of reclosable plastics bags .

Leighton M E B

PATENT ASSIGNEE: Supreme Plastics Holdings Ltd

PATENT: EP 1150824 A1

PATENT: WO 0128759

DESIGNATED STATES:

SeepublishedpatentdocumentforDesignatedContractingStates.

X-REFERENCE: FOOD PACKAGING

LANGUAGE: English

DOCUMENT TYPE: Patent

FOODLINE UPDATE CODE: 20011130

ABSTRACT: Equipment and a process are described for **heat** -sealing reclosable **plastic** **bags** . The **heat** -sealing jaw may be used in form-fill-seal packaging machines for production of bags with a **zipper seal** . The equipment incorporates **several** **heat** -sealing wires and pressure switches under the wires. These ensure that the seal is made at the correct position even if there is a change of alignment of the **zip** on the base material. A pair of aligned jaws may be provided, one on each side of the base plastic material.

SECTION HEADING: PACKAGING

DESCRIPTORS: BAGS; CONTAINERS; EQUIPMENT; EUROPEAN PATENT; FORM FILL SEAL PACKAGING; **HEAT** SEALABLE FILMS; **HEAT** SEALING; PACKAGING; PACKAGING CONTAINERS; PACKAGING FILMS; PACKAGING MATERIALS; PACKAGING PRODUCTS; PATENT; PRODUCTION; RECLOSABLE BAGS; RECLOSABLE CONTAINERS; SEALING EQUIPMENT; **ZIPPER** BAGS

Set	Items	Description
S1	332224	BAG OR BAGS OR CONTAINER? ? OR SACK? ?
S2	2345911	PLASTIC? OR THERMOPLASTIC? OR ELASTIC? OR FLEXIBLE OR FLEX- IBILITY
S3	123693	SEAL? ? OR SEAMS? ? OR SIDEWALL? ?
S4	7384930	TWO OR MULTIPLE OR MULTIPLICITY OR PLURAL? OR SEVERAL OR F- EW OR MORE (2W) ONE
S5	39103	INTERLOCK? OR ZIP? ? OR ZIPP??? OR SLIDER? ?
S6	2233419	ADHES? OR ULTRASONIC? OR HEAT
S7	2	S1(3N)S2 AND S3(3N)S4 AND S5 AND S6
S8	1	RD (unique items)

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